



Water-Data Report 2008

01463850 MIRY RUN AT ROUTE 533, AT MERCERVILLE, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 40°14'49", long 74°41'12" referenced to North American Datum of 1983, Hamilton Township, Mercer County, NJ, Hydrologic Unit 02040105, at bridge on County Route 533 (Quaker Bridge Road), 0.7 mi north of Mercerville, 2.1 mi upstream of Assumpink Creek, and 3.8 mi northwest of Robbinsville.

DRAINAGE AREA.--10.7 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1998 to current year.

GAGE.--Staff gage.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Date	Discharge, in ft ³ /s
Nov 29, 2007	3.34
Feb 4, 2008	15.3
May 6, 2008	3.85
Aug 20, 2008	0.66

01463850 MIRY RUN AT ROUTE 533, AT MERCERVILLE, NJ—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1998 to current year.

REMARKS.--Cooperative Network Site Descriptor: Urban Land Use Indicator, New Jersey Department of Environmental Protection Watershed Management Area 11.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory. Analysis of the split and concurrent replicate samples was performed by the Laboratory Branch of the U.S. EPA, Region II, Division of Environmental Science and Assessment.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 4

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Time	Sample medium and type	Turbdty	UV	UV	Baro-	Dis-	Dis-
			Instan-	white	absorb-			
			taneous	light,	ance,	metric	solved	dissolved
			dis-	det ang	254 nm,	pres-	oxy-	oxy-
			charge,	90+/-30	wat flt	ure,	gen,	gen,
			corctd	NTRU	units	mm Hg	(00300)	(00301)
			ft3/s	(63676)	(50624)	(00025)		
			(00061)					
Nov								
29...	0831	Surface water, replicate	3.3	4.7	.165	.130	766	8.2
29...	0831	QC - Surface water, split replicate	--	--	--	--	--	--
29...	0832	QC - Surface water, concurrent replicate	--	--	--	--	--	--
Feb								
04...	0930	Surface water, regular	15	33	.220	.174	776	12.1
May								
06...	1125	Surface water, regular	3.9	8.6	.192	.152	759	7.3
Aug								
20...	0830	Surface water, replicate	.66	72	.097	.080	765	3.2
20...	0830	QC - Surface water, split replicate	--	--	--	--	--	--
20...	0835	QC - Surface water, concurrent replicate	--	--	--	--	--	--

01463850 MIRY RUN AT ROUTE 533, AT MERCERVILLE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 4

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Specif-										ANC,		
	pH, water, unfltrd field, std units (00400)	conduc- tance, wat unf μS/cm (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO ₃ (00900)	Calcium water, filtrd, mg/L (00915)	Magnes- ium, water, filtrd, mg/L (00925)	Potas- sium, water, filtrd, mg/L (00935)	Sodium, water, filtrd, mg/L (00930)	fixed end pt, lab, mg/L as CaCO ₃ (90410)	Chlor- ide, water, filtrd, mg/L (00940)	Fluor- ide, water, filtrd, mg/L (00950)	Silica, water, filtrd, mg/L as SiO ₂ (00955)
Nov													
29...	6.5	198	6.5	6.5	46	11.2	4.31	3.77	15.4	24	28.3	<.12	5.3
29...	--	--	--	--	46	11.0	4.40	4.10	16.0	25	32.0	.15	--
29...	--	--	--	--	46	11.0	4.40	3.90	16.0	24	32.0	.17	--
Feb													
04...	6.7	161	4.0	3.9	39	9.51	3.72	2.55	14.7	17	22.9	<.12	5.5
May													
06...	6.2	206	16.5	14.8	48	11.5	4.77	2.77	17.3	24	30.5	E.10	5.3
Aug													
20...	6.1	188	17.0	18.3	39	9.04	4.04	3.21	17.4	28	23.2	.18	8.3
20...	--	--	--	--	38	8.70	3.90	3.00	17.0	30	26.0	.13	--
20...	--	--	--	--	38	8.80	3.90	3.00	17.0	30	27.0	.12	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 4

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Sulfate water, filtrd, mg/L (00945)	Residue water, filtrd, sum of constitu- ents wat flt (70301)	Residue on evap. 180degC wat flt (70300)	Residue total non- filter- able, mg/L (00530)	Ammonia + org-N, water, filtrd, mg/L as N (00623)	Ammonia + org-N, water, unfiltrd mg/L as N (00625)	Ammonia water, filtrd, mg/L as N (00608)	Nitrate + nitrite water, filtrd, mg/L as N (00631)	Partic- ulate nitro- gen, susp., water, filtrd, mg/L (49570)	Total nitro- gen, water, filtrd, mg/L (00602)	Total nitro- gen, water, unfiltrd mg/L (00600)	Ortho- phosphate, water, filtrd, mg/L as P (00671)	Phos- phorus, water, filtrd, mg/L as P (00666)
Nov													
29...	18.9	106	130	4	.49	--	.067	1.10	.26	1.6	1.8	<.010	.011
29...	18.0	105	130	<10	E.64	1.4	<.050	1.00	--	E1.6	2.4	.021	<.050
29...	18.0	104	130	<10	E.63	1.3	<.050	1.00	--	E1.6	2.3	.023	<.050
Feb													
04...	16.9	E90	96	16	.37	--	.066	.92	.14	1.3	1.4	E.006	.014
May													
06...	17.3	E110	131	9	.47	--	.143	1.43	.07	1.9	2.0	E.003	.014
Aug													
20...	12.4	105	115	77	.27	--	.181	2.38	.12	2.7	2.8	.011	E.007
20...	12.0	100	--	13	E.41	1.1	.210	2.50	--	E2.9	3.6	<.010	<.050
20...	12.0	101	120	120	E.47	1.2	.220	2.50	--	E3.0	3.7	<.010	<.050

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 4

[QC, quality control sample. Remark codes: <, less than; E, estimated.]

Date	Inor-					
	Phos- phorus, water, unfiltrd mg/L as P (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, filtrd, mg/L (00681)	Boron, water, filtrd, μg/L (01020)
Nov						
29...	.047	1.7	<.04	1.7	4.8	26
29...	.052	--	--	--	5.0	25
29...	.052	--	--	--	5.0	25
Feb						
04...	.081	1.1	<.04	1.1	5.2	17
May						
06...	.052	.6	<.04	.6	3.7	21
Aug						
20...	.193	1.3	<.04	1.3	1.4	16
20...	.210	--	--	--	2.0	13
20...	.230	--	--	--	2.6	13